Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 83 of 168

<210> 200 <211> 160 <212> PRT

<213> Homo sapiens

<308> Genbank NP 00063

<309> 2000-10-31

<400> 200

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Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 85 of 168

<212> PRT

<213> Homo sapiens

<400> 290

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| 100 | 105 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 115 | 120 | 125 | 125 | 125 | 125 | 125 | 125 | 126 | 127 | 127 | 127 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128

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<211> 146

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Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala

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Ser Gln

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<210> 292

<211> 146

<212> PRT

Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 84 of 168

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Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 86 of 168

<213> Homo sapiens

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Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 87 of 168

<400> 294 Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe 25 Leu Gly Ile Leu Lys Asn Trp Gln Glu Glu Ser Asp Arg Lys Ile Met 40 Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys 55 60 Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met 75 70 Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu 90 85 Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala 105 100 110 Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys 125 120 Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala 130 135 Ser Gln 145

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<211> 146

<212> PRT

<213> Homo sapiens

Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 88 of 168

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Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 89 of 168

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Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page : 90 of 168

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<213> Homo sapiens

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Cys Tyr Cys Gln Asp Pro Tyr Val Lys Glu Ala Glu Asn Leu Lys Lys 1 5 10 15

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 91 of 168

Tyr Phe Asn Ala Gly His Ser Asp Val Ala Asp Asn Gly Thr Leu Phe Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met 40 Gln Ser Gln Ile Val Ser Phe Tyr Phe Gln Leu Phe Lys Asn Phe Lys 55 60 Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met 70 75 Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu 90 85 Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala 105 110 100 Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys 115 120 125 Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala 135 130 Ser Gln 145

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Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page : 92 of 168

20 25 Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met 40 Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Gln Asn Phe Lys 55 Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met 70 Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Phe Glu 85 90 Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala 100 105 Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys 120 Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala 135 Ser Gln 145

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20 25 30

Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 93 of 168

Leu Gly Ile Leu Lys Asn Trp Lys Glu Glu Ser Asp Arg Lys Ile Met Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Gln 55 Asp Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met 70 75 Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu 85 90 Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala 100 105 110 Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys 120 125 115 Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala 130 135

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Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 94 of 168

40 Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys 55 Gln Asp Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu 85 Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala 100 105 Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys 115 120 125 Thr Gly Lys Arg Lys Arg Ser Gln Met Leu Phe Gln Gly Arg Arg Ala 130 135 Ser Gln 145

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20 25 30

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Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 95 of 168

Gln Ser Gln Ile Val Ser Phe Tyr Phe Lys Leu Phe Lys Asn Phe Lys 50 55 660

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Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu 85 90 95

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Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys 125

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Asp Asn Gln Ser Ile Gln Lys Ser Val Glu Thr Ile Lys Glu Asp Met 70 75 80

Asn Val Lys Phe Phe Asn Ser Asn Lys Lys Lys Arg Asp Asp Phe Glu 85 90 95

Lys Leu Thr Asn Tyr Ser Val Thr Asp Leu Asn Val Gln Arg Lys Ala
100 105 110

Ile His Glu Leu Ile Gln Val Met Ala Glu Leu Ser Pro Ala Ala Lys
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Gln Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 50 55 60

Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page : 96 of 168

Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 70 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 85 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 150

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<213> Homo sapiens

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 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala

Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page : 97 of 168

<210> 315

<211> 160

<212> PRT

<213> Homo sapiens

<400> 315

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 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu 35
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 Lys His Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 50
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 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 65
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Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 98 of 168

Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Cys His Arg Phe Leu 100 105 110 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155

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Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 99 of 168

85 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155

<210> 319

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90

155

Applicant: Rene Gantier et al Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 100 of 168

Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 115 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

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Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn

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Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 101 of 168

100 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

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Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 102 of 168

Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 130 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

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Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page: 103 of 168

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Lys Glu Ser Leu Leu Glu Asp Phe Gln Gly Tyr Leu Gly Cys Gln Ala
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Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 65 70 75 80

Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 85 90 95

Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 110

Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe
115 120 125

Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page: 104 of 168

 Asn
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Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 105 of 168

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Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 130 135 140

Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 106 of 168

Ile Phe	Ile	Asn	Tyr	Ile	Glu	Ala	Tyr	Met	Thr	Met	Lys	Ile	Arg	Asn
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Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Ile Gly Cys Gln Ala 55 60

Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 75 70

Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu

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Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105

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Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 107 of 168

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Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 108 of 168

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Applicant: Rene Gantier et a... Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 109 of 168

<210> 339 <211> 160 <212> PRT <213> Homo sapiens

<400> 339 Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 20 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Ile Tyr Leu Glu Glu Val Met Pro Gln Ala 70 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 110 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 125 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

<210> 340 <211> 160 <212> PRT <213> Homo sapiens

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Val Tyr Leu Glu Glu Val Met Pro Gln Ala 70 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Cys His Arg Phe Leu 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 145 150

Applicant: Rene Gantier et a... Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 110 of 168

<210> 341 <211> 160 <212> PRT

<213> Homo sapiens

<400> 341 Ser Pro G

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 20 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe His Leu Glu Glu Val Met Pro Gln Ala 75 70 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 95 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 110 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 125

 Asn
 Lys
 Leu
 Gln
 Gly
 Ile
 Tyr
 Lys
 Ala
 Met
 Ser
 Glu
 Phe
 Asp

 130
 135
 140
 140
 140

 Ile
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 Arg
 Asn

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<210> 342 <211> 160 <212> PRT <213> Homo sapiens

-400- 342

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Ile Leu Glu Glu Val Met Pro Gln Ala 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 140 135 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 150

Applicant: Rene Gantier et a. Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 111 of 168

<211> 160 <212> PRT

<213> Homo sapiens

<400> 343

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Gln Glu Val Met Pro Gln Ala 70 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 110 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 140 135

Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn

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<210> 344 <211> 160 <212> PRT

<213> Homo sapiens

<400> 344

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro 10 Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Asn Glu Val Met Pro Gln Ala 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 150

Applicant: Rene Gantier et an-Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 112 of 168

<212> PRT

<213> Homo sapiens

<400> 345

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu His Glu Val Met Pro Gln Ala 70 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 140 135 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn

155

150

<210> 346

<211> 160

<212> PRT

<213> Homo sapiens

<400> 346

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro 10 Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Gln Val Met Pro Gln Ala 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

Applicant: Rene Gantier et an-Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page: 113 of 168

<212> PRT

<213> Homo sapiens

<400> 347

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 20 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Asn Val Met Pro Gln Ala 70 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 110 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 115 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 140 135 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 150

<210> 348

<211> 160

<212> PRT

<213> Homo sapiens

<400> 348

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu His Val Met Pro Gln Ala 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 140 135 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 160 150

<210> 349

<211> 160

<212> PRT

Applicant: Rene Gantier et and Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 114 of 168

<213> Homo sapiens

<400> 349 Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Ser Gln Ala 70 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 85 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 <u>Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp</u> 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

<210> 350 <211> 160 <212> PRT <213> Homo sapiens

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Ala Gln Ala 70 75 Glu Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

<210> 351 <211> 160 <212> PRT

<213> Homo sapiens

Applicant: Rene Gantier et an-Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page: 115 of 168

<400> 351 Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 70 75 Gln Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 85 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 100 110 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 125 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 150

<210> 352 <211> 160 <212> PRT <213> Homo sapiens

<400> 352

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 75 Asn Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 160

<210> 353 <211> 160

<212> PRT

<213> Homo sapiens

Applicant: Rene Gantier et al-Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 116 of 168

<400> 353 Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 70 75 His Asn Gln Asp Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 115 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 130 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

see to the

<210> 354 <211> 160 <212> PRT <213> Homo sapiens

<400> 354 Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro 10 Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 75 Glu Asn Gln Gln Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 150

<210> 355 <211> 160 <212> PRT <213> Homo sapiens

<400> 355

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page: 117 of 168

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 20 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 60 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Val Met Pro Gln Ala 70 75 Glu Asn Gln Asn Pro Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 85 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 110 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 115 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 150

<210> 356 <211> 160 <212> PRT <213> Homo sapiens

<400> 356 Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 75 70 Glu Asn Gln Asp Ser Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 125 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 160 155 150

<210> 357 <211> 160 <212> PRT

<213> Homo sapiens

<400> 357

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 118 of 168

5 Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala Glu Asn Gln Asp Ala Asp Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 115 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

<210> 358 <211> 160 <212> PRT <213> Homo sapiens

<400> 358

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro 10 Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala Glu Asn Gln Asp Pro Gln Ile Lys Ala His Val Asn Ser Leu Gly Glu Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 100 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn

<210> 359

<211> 160

<212> PRT

<213> Homo sapiens

<400> 359

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro 1 5 10 15 Applicant: Rene Gantier et al. Attorney's Docket No.: 17109-012001/922

Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 119 of 168

Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 70 Glu Asn Gln Asp Pro Asn Ile Lys Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 115 120 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 130 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

<210> 360 <211> 160 <212> PRT <213> Homo sapiens

<400> 360 Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro 10 Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu 40 45 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 60 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 70 75 Glu Asn Gln Asp Pro Asp Ile Gln Ala His Val Asn Ser Leu Gly Glu 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 155 160

<210> 361 <211> 160 <212> PRT

<213> Homo sapiens

<400> 361

Ser Pro Gly Gln Gly Thr Gln Ser Glu Asn Ser Cys Thr His Phe Pro 1 5 10 15
Gly Asn Leu Pro Asn Met Leu Arg Asp Leu Arg Asp Ala Phe Ser Arg

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 120 of 168

20 25 Val Lys Thr Phe Phe Gln Met Lys Asp Gln Leu Asp Asn Leu Leu Leu 40 Lys Glu Ser Leu Leu Glu Asp Phe Lys Gly Tyr Leu Gly Cys Gln Ala 55 Leu Ser Glu Met Ile Gln Phe Tyr Leu Glu Glu Val Met Pro Gln Ala 75 Glu Asn Gln Asp Pro Asp Ile Asn Ala His Val Asn Ser Leu Gly Glu 85 90 Asn Leu Lys Thr Leu Arg Leu Arg Leu Arg Arg Cys His Arg Phe Leu 100 105 Pro Cys Glu Asn Lys Ser Lys Ala Val Glu Gln Val Lys Asn Ala Phe 120 125 115 Asn Lys Leu Gln Glu Lys Gly Ile Tyr Lys Ala Met Ser Glu Phe Asp 135 140 Ile Phe Ile Asn Tyr Ile Glu Ala Tyr Met Thr Met Lys Ile Arg Asn 150 155

<210> 401

<211> 209

<212> PRT

<213> Homo sapiens

<400> 401

Thr Gln Gln Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 45 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 125 120 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala 170 165 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly

180 185 190 Glu Gln Val Pro Pro Val Pro Ser <u>Pro Gln Asp Leu Leu Leu Val Glu</u>

200

205

His

<210> 402

<211> 209

<212> PRT

<213> Homo sapiens

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 121 of 168

<400> 402 Thr Gln Asn Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 75 70 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 100 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 125 120 115 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 145 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 175 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 180 185 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200

His

<210> 403

<211> 209

<212> PRT

<213> Homo sapiens

<400> 403

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 50 55 60 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His

Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu IIe His 65 70 75 80

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 85 90 95

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu

100 105 110

ValAlaLeuLysProTrpIleThrArgGlnAsnPheSerArgCysLeu115120125GluLeuGlnCysGlnProAspSerSerThrLeuProProProTrpSer

130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu
145 150 155 160

Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 122 of 168

Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 190 180 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200 <u>His</u> <210> 404 <211> 209 <212> PRT <213> Homo sapiens <400> 404 Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asn Glu Glu Leu Cys Gly Gly Leu Trp 40 45 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 60 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 85 90 95 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 155 150 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala · 165 170 . 175 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200 His <210> 405 <211> 209 <212> PRT <213> Homo sapiens <400> 405 Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 15 1 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 20 25 30 Thr Val Ala Ser Asn Leu Gln Asp Glu Gln Leu Cys Gly Gly Leu Trp 40

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala

Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 123 of 168

50 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 115 120 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 180 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 200 His

птэ

<210> 406

<211> 209

<212> PRT

<213> Homo sapiens

<400> 406

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 20 25 30

Thr Val Ala Ser Asn Leu Gln Asp Glu Asn Leu Cys Gly Gly Leu Trp 35 40 45

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 50 55 60

Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 65 70 75 80

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn <u>Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu</u>
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 145 150 155 160

Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala
165 170 175

Trp Cys Leu His Trp Gln Arg Thr Arg Arg Thr Pro Arg Pro Gly
180 185 190

Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu
195 200 205

His

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page: 124 of 168

<210> 407

<211> 209

<212> PRT

<213> Homo sapiens

<400> 407

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu His Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 75 70 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 100 110 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 155 150 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 170 165 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Thr Pro Arg Pro Gly 180 185 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200

His

<210> 408

<211> 209

<212> PRT

<213> Homo sapiens

115

<400> 408

Applicant: Rene Gantier et al. Attorney's Docket No.: 17109-012001/922

Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 125 of 168

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 175 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 180 185 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200 205

His

<210> 409

<211> 209

<212> PRT

<213> Homo sapiens

<400> 409 Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Ile Cys Gly Gly Leu Trp 40 45 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 60 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 75 70 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 125 120 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155

Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala

 Trp
 Cys
 Leu
 His
 Trp
 Gln
 Arg
 Thr
 Arg
 Arg
 Arg
 Thr
 Pro
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 Pro
 Gly

 Glu
 Gln
 Val
 Pro
 Val
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 Leu
 Leu
 Val
 Glu

 195
 205
 205
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 205
 205

170

His

<210> 410

<211> 209

<212> PRT

<213> Homo sapiens

165

<400> 410

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15
Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val

Applicant: Rene Gantier et al. Serial No.: 10/658,834 : September 8, 2003 Third Preliminary Amendment Page : 126 of 168

25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln His Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 115 120 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 130 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 180 185 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 195 200 His

<210> 411 <211> 209 <212> PRT

<213> Homo sapiens

<400> 411

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 30 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 45 Arg Leu Val Leu Ala Gln Gln Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 85 90 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu

Applicant: Rene Gantier et al. Attorney's Docket No.: 17109-012001/922

Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 127 of 168

195 200 205

<u>His</u>

<210> 412

<211> 209

<212> PRT

<213> Homo sapiens

<400> 412

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala
1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 20 25 30

Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp
35 40 45

Arg Leu Val Leu Ala Gln Arg Trp Met Gln Arg Leu Lys Thr Val Ala 50 60

Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 65 70 75 80

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe
85 90 95

Val Gln Thr Asn <u>Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu</u> 100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu
115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser
130 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu

145

150

155

160

Leu Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala

Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala

165 170 175

Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly

180

185

190

Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu

195 200 205

His

<210> 413

<211> 209

<212> PRT

<213> Homo sapiens

<400> 413

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 1 5 10 15

1 5 10 15 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val

25

Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp

Arg Leu Val Leu Ala Gln Arg Trp Met Asn Arg Leu Lys Thr Val Ala 50 55 60

Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 65 70 75 80

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 85 90 95

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 128 of 168

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 110 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 115 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 180 185 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 200 His

<210> 414

<211> 209

<212> PRT

<213> Homo sapiens

<400> 414

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 20 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met His Arg Leu Lys Thr Val Ala 55 60 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 85 90 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu

150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170

Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185

Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200

<u>His</u>

<210> 415

<211> 209

<212> PRT

<213> Homo sapiens

Applicant: Rene Gantier et al.c. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 129 of 168

<400> 415 Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu His Leu Lys Thr Val Ala 55 60 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 110 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 115 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 155 150 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Thr Pro Arg Pro Gly 180 185 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 200 205

<u>His</u>

<210> 416

<211> 209

<212> PRT

<213> Homo sapiens

<400> 416

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Gln Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 75 70 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 85 90 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 100 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 160 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Leu Ala Ala Ala Applicant: Rene Gantier et al. Attorney's Docket No.: 17109-012001/922

Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 130 of 168

Trp	Cvs	Leu	His	165 Trp	Gln	Arq	Thr	Ara	170 Arg	Ara	Thr	Pro	Ara	175 Pro	Glv
<u></u> P			180	<u></u>				185		5			190		
Glu	Gln	Val	Pro	Pro	Val	Pro	Ser	Pro	Gln	Asp	Leu	Leu	Leu	Val	Glu
		195					200					205			
<u>His</u>															

<210> 417 <211> 209 <212> PRT

<213> Homo sapiens

<400> 417 Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 30 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 45 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Gln Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 75 70 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 95 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 110 100 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 125 120 · Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 175 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 205

His

<210> 418 <211> 209

<212> PRT <213> Homo sapiens

<400> 418

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003

Third Preliminary Amendment Page : 131 of 168

Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Phe 90 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 155 150 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 180 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200

His

<210> 419

<211> 209

<212> PRT

<213> Homo sapiens

<400> 419

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala

55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75

Phe Val Thr Lys Cys Ala Phe Gln Ser Pro Pro Ser Cys Leu Arg Phe 85 90

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140

Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155

Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170

Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185

Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200

His

Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 132 of 168

<211> 209 <212> PRT

<213> Homo sapiens

<400> 420

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Ala Pro Pro Ser Cys Leu Arg Phe 90 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 110 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 115 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 140 135 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 155 150 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 170 165 175 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly

185

Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 200

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205

His

<210> 421

<211> 209

<212> PRT

<213> Homo sapiens

<400> 421

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Ser Pro Ser Cys Leu Arg Phe 85 90 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 100 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser

Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 133 of 168

130 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 200 His <210> 422 <211> 209 <212> PRT <213> Homo sapiens <400> 422 Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 10 5 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 3.0 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly_Gly Leu Trp 40 45 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 60 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 75 70 Phe Val Thr Lys Cys Ala Phe Gln Pro Ala Pro Ser Cys Leu Arg Phe 85 90 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 110 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 200 His <210> 423 <211> 209 <212> PRT <213> Homo sapiens <400> 423

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 30 20

Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al

Serial No.: 10/658,834 : September 8, 2003 Third Preliminary Amendment

Page : 134 of 168

Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Ser Ser Cys Leu Arg Phe 90 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 165 170 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 180 185 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 200

His

<210> 424

<211> 209

<212> PRT

<213> Homo sapiens

195

<400> 424

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 45 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Ala Ser Cys Leu Arg Phe 90 95 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 110 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 170 165 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu

200

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page: 135 of 168

His

<210> 425

<211> 209 <212> PRT <213> Homo sapiens <400> 425 Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu His Phe 85 90 95 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 105 110 100 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 115 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 155 150 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 170 165 175 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 180 185 190 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu 200 205 <u>His</u>

<210> 426 <211> 209

<212> PRT

<213> Homo sapiens

<400> 426

Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 136 of 168

100 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 115 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 140 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 150 155 Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 170 165 Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185 180 Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 195 200 His

<210> 427 <211> 209

<212> PRT

<213> Homo sapiens

<400> 427

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala 5 10 Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val 25 Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp 40 45 Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 55 60 Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 70 75 Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Ile 90 85 Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu 100 105 Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 120 125 Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser 135 Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala Pro Gln Pro Pro Leu 155

Leu Leu Leu Leu Leu Pro Val Gly Leu Leu Leu Ala Ala Ala 170

Trp Cys Leu His Trp Gln Arg Thr Arg Arg Arg Thr Pro Arg Pro Gly 185

Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Leu Val Glu 200 205

His

<210> 428

<211> 209

<212> PRT

<213> Homo sapiens

<400> 428

Applicant: Rene Gantier et al. Attorney's Docket No.: 17109-012001/922

Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page: 137 of 168

Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe Ala

1 5 10 15

Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro Val

20 25 30

Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu Trp

Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val Ala 50 55 60

Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile His 65 70 75 80

Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg Val

85

90

95

Val Cln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu

Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln Leu
100 105 110

Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys Leu 115 120 125

Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp Ser

130

135

140

Pro Asp Ser Ser Thr Ala Pro Cln Pro Pro Lou

ProArgProLeuGluAlaThrAlaProThrAlaProGlnProProLeu145150155155160LeuLeuLeuLeuProValGlyLeuLeuLeuAlaAla

165 170 175

Trp Cys Leu His Trp Gln Arg Thr Arg Arg Thr Pro Arg Pro Gly

180 185 190

Glu Gln Val Pro Pro Val Pro Ser Pro Gln Asp Leu Leu Val Glu

195 200 205

His

<210> 499

<211> 248

<212> PRT

<213> Homo sapiens

<400> 499

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15

Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Val Ile Thr Leu Lys Tyr 20 25 30

Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 35 40 45

Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser
50 55 60

Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val

Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 95

Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro

Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 115 120 125

Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 130 135 140

Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu145150

Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Asn
165 170 175

Applicant: Rene Gantier et al. Attorney's Docket No.: 17109-012001/922

Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page: 138 of 168

Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190

Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly

195 200 205

Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu

210 215 220

Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu

225 230 235 240

Lys Glu Arg Glu Phe Gln Glu Val

245

<210> 500

<211> 248

<212> PRT

<213> Homo sapiens

<400> 500

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 10 15

Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Ile Ile Thr Leu Lys Tyr 20 25 30

Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 35 40 45

Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 50 55 60

Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 65 70 75 80

Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys
85 90 95

Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro
100 105 110

Glu Glu Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp

115 120 125
Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu

130 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu

 145
 150
 155
 160

 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn
 165
 170
 175

Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 190

Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205

Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 210 215 220

Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 225 230 235 240

Lys Glu Arg Glu Phe Gln Glu Val

245

<210> 501

<211> 248

<212> PRT

<213> Homo sapiens

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 139 of 168

<400> 501 Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Gln Tyr 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 55 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 90 85 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 100 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 125 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 140 135 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 170 175 165 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 190 180 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val

<210> 502

<211> 248

<212> PRT

<213> Homo sapiens

<400> 502

Applicant: Rene Gantier et al. Serial No.: 10/658,834

Filed: September 8, 2003 Third Preliminary Amendment

Page : 140 of 168

Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 195 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val 245

<210> 503

<211> 248

<212> PRT

<213> Homo sapiens

<400> 503

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr
1 5 10 15

Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 20 25 30

Val Ser Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met
35 40 45

Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 50 60

Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 65 70 75 80

Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 95

Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 100 105 110

Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 115 120 125

Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu
130 135 140

Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu145150

Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Asn
165 170 175

Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
180 185 190

Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
195 200 205

Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 210 215 220

Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 225 230 235 240

Lys Glu Arg Glu Phe Gln Glu Val

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page : 141 of 168

<210> 504 <211> 248

<212> PRT

<213> Homo sapiens

<400> 504

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 5 10 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 55 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 90 85 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 100 105 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu

245

Lys Glu Arg Glu Phe Gln Glu Val

230

<210> 505

<211> 248

<212> PRT

<213> Homo sapiens

<400> 505

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 10 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 20 25 Val Pro Gly Met Gln Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 55 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 70

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page: 142 of 168

Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 175 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 190 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 205 195 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val

<210> 506 <211> 248 <212> PRT <213> Homo sapiens

245

<400> 506 Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 5 10 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Pro Gly Met Asn Val Leu Pro Ser His Cys Trp Ile Ser Glu Met Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 125 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 205 200 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu

Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 143 of 168

210 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 240 Lys Glu Arg Glu Phe Gln Glu Val 245

<210> 507

<211> 248

<212> PRT

<213> Homo sapiens

<400> 507

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 10 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 45 Val Val Gln Leu Ser Gln Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 55 60 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 70 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 100 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 125 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 155 150 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Asn 170 165 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 . 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu

Lys Glu Arg Glu Phe Gln Glu Val 245

230

<210> 508

<211> 248

<212> PRT

<213> Homo sapiens

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 5 10 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 20 25

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 144 of 168

Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met Val Val Gln Leu Ser Asn Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 110 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 115 125 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 155 150 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 175 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 180 190 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 195 200 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 220 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val 245

<210> 509

<211> 248

<212> PRT

<213> Homo sapiens

<400> 509

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met Val Val Gln Leu Ser Asp Ser Leu Thr Gln Leu Leu Asp Lys Phe Ser 55 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 140 135 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 155 150 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 145 of 168

165 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 180 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 195 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val 245

<210> 510

<211> 248

<212> PRT

<213> Homo sapiens

<400> 510 Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 10 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 45 Val Val Gln Leu Ser Asp Ser Leu Thr Asn Leu Leu Asp Lys Phe Ser 55 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 70 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 90 85 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 190 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 220 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val

245

<210> 511

<211> 248

<212> PRT

<213> Homo sapiens

Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 146 of 168

<400> 511 Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Gln Lys Phe Ser 55 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 70 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 100 110 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 125 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 155 150 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 170 165 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 190 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 210 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val

<210> 512

<211> 248

<212> PRT

<213> Homo sapiens

245

<400> 512

Applicant: Rene Gantier et al Serial No.: 10/658,834 : September 8, 2003 Third Preliminary Amendment

Page : 147 of 168

120 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 190 185 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val 245

<210> 513

<211> 248

<212> PRT

<213> Homo sapiens

<400> 513 Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 10 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 45 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Gln Phe Ser 55 60 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 70 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser <u>Ser Thr Leu</u> 135 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 155 150 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu

235

Applicant: Rene Gantier et anserial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page: 148 of 168

<210> 514 <211> 248 <212> PRT

<213> Homo sapiens

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 10 Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Asn Phe Ser 55 60 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 . 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 110 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 115 125 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 155 150 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 170 175 165 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 190 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 195 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 220 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val

<210> 515 <211> 248 <212> PRT

<213> Homo sapiens

245

<400> 515

Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val Thr 1 5 10 15

Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 20 25 30

Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 35 40 45

Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Ile Ser 50 55 60

Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val

Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 149 of 168

65					70					75					80
Asn	Ile	Val	Asp	Asp 85	Leu	Val	Glu	Cys	Val 90	Lys	Glu	Asn	Ser	Ser 95	Lys
Asp	Leu	Lys	Lys 100	Ser	Phe	Lys	Ser	Pro 105	Glu	Pro	Arg	Leu	Phe 110	Thr	Pro
Glu	Glu	Phe 115	Phe	Arg	Ile	Phe	Asn 120	Arg	Ser	Ile	Asp	Ala 125	Phe	Lys	Asp
Phe	Val 130	Val	Ala	Ser	Glu	Thr 135	Ser	Asp	Cys	Val	Val 140	Ser	Ser	Thr	Leu
Ser	Pro	Glu	Lys	Asp	Ser	Arg	Val	Ser	Val	Thr	Lys	Pro	Phe	Met	Leu
145					150					155					160
Pro	Pro	Val	Ala	Ala	Ser	Ser	Leu	Arg	Asn	Asp	Ser	Ser	Ser	Ser	Asn
				165					170		.,			175	
Arg	Lys	Ala	Lys	Asn	Pro	Pro	Gly	Asp	Ser	Ser	Leu	His	Trp	Ala	Ala
			180	-			-	185					190		
Met	Ala	T.em	D												
		100	Pro	Ala	Leu	Phe	Ser	Leu	Ile	Ile	Gly	Phe	Ala	Phe	Gly
		195	Pro	Ala	Leu	Phe	<u>Ser</u>	Leu	Ile	Ile	Gly	Phe 205	Ala	Phe	GIY
Ala		195										205	-	•	
<u>Ala</u>		195					200					205	-	•	
	Leu 210	195 Tyr	Trp	Lys	Lys	Arg 215	200	Pro	Ser	Leu	Thr 220	205 Arg	Ala	Val	Glu
	Leu 210	195 Tyr	Trp	Lys	Lys	Arg 215	200 Gln	Pro	Ser	Leu	Thr 220	205 Arg	Ala	Val	Glu
Asn 225	Leu 210 Ile	195 Tyr Gln	Trp	Lys	Lys Glu 230	Arg 215 Glu	200 Gln Asp	Pro	Ser	Leu Ile	Thr 220	205 Arg	Ala	Val	Glu Glu

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<211> 248

<212> PRT

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Applicant: Rene Gantier et al. Serial No.: 10/658,834

Filed: September 8, 2003 Third Preliminary Amendment

Page : 150 of 168

Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 210 215 220

 Asn
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 Gln
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 Asn
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Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 151 of 168

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155

Applicant: Rene Gantier et a Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 152 of 168

Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 190 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 195 200 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val 245

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Applicant: Rene Gantier et al. Attorney's Docket No.: 17109-012001/922

Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page : 153 of 168

<213> Homo sapiens

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Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 154 of 168

115 120 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser_Asn 170 175 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 195 200 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val 245

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Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala
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Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly
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Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 210 215 220

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Applicant: Rene Gantier et al. Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page: 155 of 168

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Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 156 of 168

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Applicant: Rene Gantier et al. Serial No.: 10/658,834

Filed : September 8, 2003 Third Preliminary Amendment

Page : 157 of 168

 Ala
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Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page: 158 of 168

20 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 55 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 90 Asp Leu Lys Lys Ser Phe Asn Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 110 100 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 125 Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 155 150 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 170 165 175 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 190 180 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 220 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val 245

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155

Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 159 of 168

Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 190 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 195 200 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 220 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 Lys Glu Arg Glu Phe Gln Glu Val 245

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Applicant: Rene Gantier et al. Serial No.: 10/658,834

Filed: September 8, 2003 Third Preliminary Amendment

Page : 160 of 168

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<212> PRT

<213> Homo sapiens

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Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 161 of 168

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Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 162 of 168

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Serial No.: 10/658,834

Filed: September 8, 2003

Third Preliminary Amendment

Page: 163 of 168

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Attorney's Docket No.: 17109-012001/922 Applicant: Rene Gantier et al.

Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment

Page : 164 of 168

195 200 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235 240 Lys Glu Arg Glu Phe Gln Glu Val

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Applicant: Rene Gantier et al. Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 165 of 168

Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys Tyr 25 Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu Met 40 Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe Ser 55 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Val 75 Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser Lys 85 90 Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr Pro 105 100 Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp 120 125 Phe Val Val Ala Ser Gln Thr Ser Asp Cys Val Val Ser Ser Thr Leu 135 140 Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 165 170 175 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 185 190 180 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200 195 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 220 215 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 235 230 Lys Glu Arg Glu Phe Gln Glu Val 245

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Serial No.: 10/658,834 Filed: September 8, 2003 Third Preliminary Amendment Page : 166 of 168

145 150 155 Pro Pro Val Ala Ala Ser Ser Leu Arg Asn Asp Ser Ser Ser Ser Asn 170 175 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala 180 185 Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 195 200 205 Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220 Asn Ile Gln Ile Asn Glu Glu Asp Asn Glu Ile Ser Met Leu Gln Glu 230 235

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170 165 Arg Lys Ala Lys Asn Pro Pro Gly Asp Ser Ser Leu His Trp Ala Ala

180 185

Met Ala Leu Pro Ala Leu Phe Ser Leu Ile Ile Gly Phe Ala Phe Gly 200

Ala Leu Tyr Trp Lys Lys Arg Gln Pro Ser Leu Thr Arg Ala Val Glu 215 220

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Applicant: Rene Gantier et al.
Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment
Page: 167 of 168

<212> PRT

<213> Homo sapiens

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Serial No.: 10/658,834
Filed: September 8, 2003
Third Preliminary Amendment

Page : 168 of 168

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